

ADAPTIVE EQUALIZER

ABSTRACT

An adaptive equalizer processes an input signal that
5 includes noise, pre-cursor intersymbol interference, and post-
cursor intersymbol interference. The adaptive equalizer
includes a feedforward filter which reduces the pre-cursor
intersymbol interference and whitens the noise, a feedback
filter which detects the post-cursor intersymbol interference
10 in a signal that corresponds to the input signal, and
circuitry which removes the detected post-cursor intersymbol
interference from the input signal. The feedforward filter
includes separate first and second coefficients. The first
coefficients reduce the pre-cursor intersymbol interference
15 and the second coefficients whiten the noise.

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